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In the Specification:

Applicant hereby amends the specification as follows:

1.   Page 7, Line 15: amend "to exceed a probability threshold" to "to be below a probability threshold".

2.   Page 7, Line 26: amend "is above some minimum threshold" to "is below some maximum threshold".

3.   Page 7, Line 30: amend "is above a threshold" to "is below a threshold".

4.   Page 8, Line 1: amend "is also above some minimum threshold" to "is also below some maximum threshold".

5.   Page 9, Line 13: Insert the following paragraph:

"Practitioners of ordinary skill will recognize that while the foregoing presentation of the preferred embodiment calculated the probability that the counts were from background, the equivalent result of the invention, that is, comparing probabilities in order to detect correlated counts across detectors or time slices, can be achieved by calculating the probability that the counts were from a source. That is, the first probability is one minus the second because either the counts are from background or they are from a radioactive source. Therefore, wherever in the description of the process the probability that the counts are from background is calculated and the value checked to be below a threshold, the invention can equivalently be implemented by calculating the probability that the counts are from a source, and checking whether that value is above a threshold."

In the Claims:

Claims 1 - 19 are cancelled.

New claims are added as follows:

20.   (new) A method for detecting low-level radioactive sources moving past a detection apparatus comprising:

Measuring the number of radiation counts for each of at least two substantially distinct time slices occurring during the time period the source passes the apparatus; and

Calculating a correlation of the measured counts with respect to either all of the at least two time slices or a subset of the at least two time slices.